

494 - INSTRUMENTATION AND CONTROLS INTEGRATOR REQUIREMENTS

I. GENERAL

Instrumentation and control integrator companies and programmers doing work for JEA must adhere the following certification and experience requirements. Copies of current, valid certifications must be provided to JEA to maintain status as an approved JEA Instrumentation and Controls Integrator.

II. INTEGRATOR QUALIFICATION

Based on a company's certifications and the experience level of its integrators/programmers it will be placed into one of two tiers that will determine the company's qualification to bid on projects of different levels of complexity.

II.1. COMPANY CERTIFICATION

- II.1.1. First tier approval is for major complex jobs and would consist of the integration company being a SCSP (Siemens Certified Solutions Partner) and the additional integrator experience required for complex jobs. See section III.3.1 for what defines complex jobs.
- II.1.2. Second tier approval is for simpler, less complex, jobs which would not require SCSP certification and the additional integrator experience required for simple jobs. See section III.3.2 for what defines simple jobs.
- II.1.3. All approved companies must have a permanent local office with actual street address. The local office location shall be within a four hour driving radius from Jacksonville, FL / Duval County.
- II.1.4. All approved companies shall require a minimum of two local certified integrators on staff capable of doing the work assigned. See section above for required certifications. Local is defined as an office location within a four hour driving radius from Jacksonville.

II.2. INTEGRATOR CERTIFICATION AND EXPERIENCE

- II.2.1. The actual integrators doing the work must be Siemens certified in Step 7, TIA Portal, and/or WinCC as required by the programming required by the project.
- II.2.2. Refer to the Integrator Experience Matrix in III.4 to evaluate the combination of Siemens programming and water wastewater programming experience for each programmer to determine qualification for working on complex and/or simple projects.

III. PROJECT QUALIFICATION

III.1. COMPANY PROJECT QUALIFICATION

- III.1.1. Tier one approved companies may do work on complex, simple or incidental projects provided the integrator assigned to do the work meets the experience requirements in the Integrator Experience Matrix.

- III.1.2. Tier two approved companies may not do complex projects. Tier two approved companies may do simple and incidental projects provided the integrator assigned to do the work meets the experience requirements in the Integrator Experience Matrix.

III.2. INTEGRATOR PROJECT QUALIFICATION

III.2.1. Complex Project Integrator Experience Requirement

The integrator assigned to do the work must have a combination of Siemens programming and water wastewater programming experience to qualify for a complex project (Green area of matrix).

III.2.2. Simple Project Integrator Experience Requirement

The integrator assigned to do the work must have a combination of Siemens programming and water wastewater programming experience to qualify for a simple project (Yellow or Green area of matrix).

III.2.3. Incidental Programming Integrator Experience Requirement

The integrator assigned to do the work must have a combination of Siemens programming and water wastewater programming experience to qualify to work on incidental programming tasks. (Red, Yellow or Green area of matrix)

III.3. PROJECT COMPLEXITY DEFINITIONS

III.3.1. Complex Project

A complex project is any water, wastewater, or reuse process control system project that contains any one of the following:

- III.3.1.1. Two or more PLCs that communicate with each other.
- III.3.1.2. Two or more PI or PID loops, with a cascading loop counting as two.
- III.3.1.3. Plant HMI development (not local Operator displays)
- III.3.1.4. Potable Water Treatment
- III.3.1.5. Other features as specified in the project scope (e.g. processes/technologies that are new to JEA)

III.3.2. Simple Project

A simple project is any water, wastewater, or reuse process control system project that is not classified as a complex project.

III.3.3. Incidental Programming

Incidental programming work, includes but is not limited to, development of Function Blocks (FB) or Function Calls (FC) for use in operating logic, development of an API or ActiveX controls for an HMI, or conversion of existing logic from Step7 to TIA Portal under the direct supervision of JEA Management.

III.4. INTEGRATOR EXPERIENCE MATRIX

Years of Siemens Programming	10	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
	9	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
	8	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
	7	Red	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
	6	Red	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green
	5	Red	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green
	4	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green
	3	Red	Red	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green
	2	Red	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
	1	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
	0	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
		0	1	2	3	4	5	6	7	8	9	10
Water/Wastewater Programming Experience												

Green = Qualified to work on complex projects
 Yellow = Qualified to work on simple projects
 Red = Qualified to work on incidental support projects